

IN THE SPECIFICATION

Please replace the paragraph beginning at page 11, line 22, with the following amended paragraph:

FIG. 4 illustrates an example router or switch line card embodiment of a portion of the system 100 of FIG. 1. In this embodiment, the processing system comprises a line card 400 having at least one integrated circuit 402 installed thereon. The integrated circuit 402 comprises network processor 102 which has internal memory 104. The network processor 102 interacts with external memory 106 on the line card 400. The external memory 106 includes the above-described linked list storage portion 122, and may also be used ~~to~~ for other functions, for example, it may serve as an external tree memory for the network processor integrated circuit. The above-noted host processor may also be installed on the line card 400. The portion of the processing system as shown in FIG. 4 is considerably simplified for clarity of illustration. It is to be appreciated, however, that the processing system may comprise a router or switch which includes multiple such line cards, and that each of the line cards may include multiple integrated circuits. A similar embodiment may be implemented in the form of a port card in a router or switch.